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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
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see PCT Gazette No. 20/2001 of 17 May 2001, Section II

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CELL CYCLE AND PROLIFERATION PROTEINS

(57) Abstract: The invention provides human cell cycle and proliferation proteins (CCYPR) and polynucleotides which identify and encode CCYPR. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with expression of CCYPR.



WO 01/07471 A3

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/US 00/19948

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C12N5/10 C07K14/47 C07K16/18 C12Q1/68
A61K38/17 G01N33/50 A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K C12Q A61K G01N A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NEMOTO Y ET AL: "Recruitment of an alternatively spliced form of synaptojanin 2 to mitochondria by the interaction with the PDZ domain of a mitochondrial outer membrane protein" EMBO JOURNAL., vol. 18, no. 11, 1 June 1999 (1999-06-01), pages 2991-3006, XP002156389 Rat OMP25: 88.966% identity in 145 aa overlap with SeqIdNo.1 / 75.835% identity in 1167 nt overlap with SeqIdNo.55 ---	1,3,6,7, 9-11,13, 15,19, 22,25,26
X	WO 98 45436 A (GENETICS INST) 15 October 1998 (1998-10-15) SeqIdNo.1414: 99.8% identity in 432 bp overlap with SeqIdNo.55 ---	3,11,12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

4 January 2001

Date of mailing of the international search report

25. 04. 2001

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INTERNATIONAL SEARCH REPORT

Inte al Application No
PCT/US 00/19948

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	EP 1 033 401 A (GENSET) 6 September 2000 (2000-09-06) SeqIdNo.3623: 100.000% identity in 374 nt overlap with SeqIdNo.55	1,3,6,7, 9-15
T	-& DATABASE GENESEQ [Online] E.B.I., Hinxton. U.K.; Accession Number: C03625, 6 October 2000 (2000-10-06) DUMAS M ET AL: "Human secreted protein 5' EST, SeqIdNo.3623" XP002156390 abstract	
A	--- WO 97 12962 A (COLD SPRING HARBOR LAB ;BEACH DAVID (US); CALIGIURI MAUREEN (US);) 10 April 1997 (1997-04-10) -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/19948

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see further information sheet invention group 1.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim : 1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/19948

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9845436	A	15-10-1998	AU 6891098 A EP 0973896 A	30-10-1998 26-01-2000
EP 1033401	A	06-09-2000	NONE	
WO 9712962	A	10-04-1997	US 6001619 A EP 0857205 A	14-12-1999 12-08-1998